

## SEQUENCE LISTING

&lt;110&gt; VIB vzw

&lt;120&gt; DIAGNOSTIC TESTS FOR THE DETECTION OF MOTOR NEUROPATHY

&lt;130&gt; VTI/HSP/V171

&lt;140&gt; PCT/EP2004/052962

&lt;141&gt; 2004-11-15

&lt;150&gt; EP03104181.7

&lt;151&gt; 2003-11-13

&lt;160&gt; 79

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 1511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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| atgccagtac tggcccatcc ttgttttgtc cccaacctta gggcttctct gattccagga  | 660  |
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<400> 2

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          20          25          30

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Asp Gly Phe Gly Met Asp Pro Phe Pro Asp Asp Leu Thr Ala Ser Trp
          35          40          45

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Pro Asp Trp Ala Leu Pro Arg Leu Ser Ser Ala Trp Pro Gly Thr Leu
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Arg Ser Gly Met Val Pro Arg Gly Pro Thr Ala Thr Ala Arg Phe Gly
65          70          75          80

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Val Pro Ala Glu Gly Arg Thr Pro Pro Pro Phe Pro Gly Glu Pro Trp
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Lys Val Cys Val Asn Val His Ser Phe Lys Pro Glu Glu Leu Met Val
          100          105          110

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Lys Thr Lys Asp Gly Tyr Val Glu Val Ser Gly Lys His Glu Glu Lys
          115          120          125

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Gln Gln Glu Gly Gly Ile Val Ser Lys Asn Phe Thr Lys Lys Ile Gln  
130 135 140

Leu Pro Ala Glu Val Asp Pro Val Thr Val Phe Ala Ser Leu Ser Pro  
145 150 155 160

Glu Gly Leu Leu Ile Ile Glu Ala Pro Gln Val Pro Pro Tyr Ser Thr  
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Phe Gly Glu Ser Ser Phe Asn Asn Glu Leu Pro Gln Asp Ser Gln Glu  
180 185 190

Val Thr Cys Thr  
195

<210> 3  
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<212> PRT  
<213> Triticum aestivum

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Pro Ala Ile Ser Gly Gly Gly Ser Glu Thr Ala Ala Phe Ala Asn Ala  
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Arg Met Asp Trp Lys Glu Thr Pro Glu Ala His Val Phe Lys Ala Asp  
20 25 30

Leu Pro Gly Val Lys Lys Glu Glu Val Lys Val Glu Val Glu Asp Gly  
35 40 45

Asn Val Leu Val Val Ser Arg Thr Lys Glu Lys Glu Asp Lys Asn Asp  
50 55 60

Arg Ser Ser Gly Lys Phe Val Arg Arg Phe Arg Leu  
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<210> 4  
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<213> Drosophila melanogaster

<400> 4

Gly Tyr Leu Arg Pro Trp His Thr Asn Ser Leu Gln Lys Gln Glu Ser

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| 1   | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Gly | Ser | Thr | Leu | Asn | Ile | Asp | Ser | Glu | Lys | Phe | Glu | Val | Ile | Leu | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Gln | Gln | Phe | Ser | Pro | Ser | Glu | Ile | Thr | Val | Lys | Val | Ala | Asp | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Val | Ile | Val | Glu | Gly | Lys | His | Glu | Glu | Lys | Gln | Asp | Glu | His | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Tyr | Val | Ser | Arg | Gln | Phe | Ser | Arg | Arg | Tyr | Gln | Leu |     |     |     |     |
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| Ser | Pro | Tyr | Tyr | Arg | Gln | Ser | Leu | Phe | Arg | Thr | Val | Leu | Asp | Ser | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ile | Ser | Glu | Val | Arg | Ser | Asp | Arg | Asp | Lys | Phe | Val | Ile | Phe | Leu | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Lys | His | Phe | Ser | Pro | Glu | Asp | Leu | Thr | Val | Lys | Val | Gln | Asp | Asp |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Val | Glu | Ile | His | Gly | Lys | His | Asn | Glu | Arg | Gln | Asp | Asp | His | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Tyr | Ile | Ser | Arg | Glu | Phe | His | Arg | Arg | Tyr | Arg | Leu |     |     |     |     |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     |     |

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 <400> 6

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| Leu | Arg | Pro | Pro | Ser | Phe | Leu | Arg | Ala | Pro | Ser | Trp | Phe | Asp | Thr | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Leu Ser Glu Met Arg Leu Glu Lys Asp Arg Phe Ser Val Asn Leu Asp  
20 25 30

Val Lys His Phe Ser Pro Glu Glu Leu Lys Val Lys Val Leu Gly Asp  
35 40 45

Val Ile Glu Val His Gly Lys His Glu Glu Arg Gln Asp Glu His Gly  
50 55 60

Phe Ile Ser Arg Glu Phe His Arg Lys Tyr Arg Ile  
65 70 75

<210> 7  
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<400> 7

Pro Arg Gly Pro Thr Ala Thr Ala Arg Phe Gly Val Pro Ala Glu Gly  
1 5 10 15

Arg Thr Pro Pro Pro Phe Pro Gly Glu Pro Trp Lys Val Cys Val Asn  
20 25 30

Val His Ser Phe Lys Pro Glu Glu Leu Met Val Lys Thr Lys Asp Gly  
35 40 45

Tyr Val Glu Val Ser Gly Lys His Glu Glu Lys Gln Gln Glu Gly Gly  
50 55 60

Ile Val Ser Lys Asn Phe Thr Lys Lys Ile Gln Leu  
65 70 75

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Ala Ala Pro Ala Tyr Ser Arg Ala Leu Ser Arg Gln Leu Ser Ser Gly  
1 5 10 15

Val Ser Glu Ile Arg His Thr Ala Asp Arg Trp Arg Val Ser Leu Asp  
20 25 30

Val Asn His Phe Ala Pro Asp Glu Leu Thr Val Lys Thr Lys Asp Gly  
35 40 45

Val Val Glu Ile Thr Gly Lys His Glu Glu Arg Gln Asp Glu His Gly  
50 55 60

Tyr Ile Ser Arg Cys Phe Thr Arg Lys Tyr Thr Leu  
65 70 75

<210> 9  
<211> 76  
<212> PRT  
<213> Mycobacterium leprae

<400> 9

Arg Phe Ala Glu Gln Val Leu Gly Thr Ser Ala Arg Pro Ala Val Met  
1 5 10 15

Pro Met Asp Ala Trp Arg Glu Gly Glu Glu Phe Val Val Glu Phe Asp  
20 25 30

Leu Pro Gly Ile Lys Ala Asp Ser Leu Asp Ile Asp Ile Glu Arg Asn  
35 40 45

Val Val Thr Val Arg Ala Arg Pro Gly Val Asp Pro Asp Arg Glu Met  
50 55 60

Arg Pro Arg Gly Val Phe Asn Arg Gln Leu Val Leu  
65 70 75

<210> 10  
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Pro Arg Gly Pro Pro Ala Thr Ala Arg Phe Gly Val Pro Ala Glu Gly  
1 5 10 15

Arg Ser Pro Pro Pro Phe Pro Gly Glu Pro Trp Lys Val Cys Val Asn  
20 25 30

Val His Ser Phe Lys Pro Glu Glu Leu Met Val Lys Thr Lys Asp Gly  
35 40 45

Tyr Val Glu Val Ser Gly Lys His Glu Glu Lys Gln Gln Glu Gly Gly  
50 55 60

Ile Val Ser Lys Asn Phe Thr Lys Lys Ile Gln Leu  
65 70 75

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Pro Arg Gly Pro Thr Ala Thr Ala Arg Phe Gly Val Pro Ala Glu Gly  
1 5 10 15

Arg Asn Pro Pro Pro Phe Pro Gly Glu Pro Trp Lys Val Cys Val Asn  
20 25 30

Val His Ser Phe Lys Pro Glu Glu Leu Met Val Lys Thr Lys Asp Gly  
35 40 45

Tyr Val Glu Val Ser Gly Lys His Glu Glu Lys Gln Gln Glu Gly Gly  
50 55 60

Ile Val Ser Lys Asn Phe Thr Lys Lys Ile Gln Leu  
65 70 75

<210> 12  
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Leu Tyr Pro Arg Trp Ala Glu Pro Ile Phe Lys Glu Gly Ile Asp Val  
1 5 10 15

Asn Ser Asn Val Val Asn Asp Asp Arg Arg Phe Ala Val Asp Met Asp  
20 25 30

Cys Tyr Gln Phe Arg Pro Glu Glu Ile Gln Val Lys Thr Leu Asp Asp  
35 40 45

Thr Leu Met Ile Glu Gly Arg His Glu Asp Ile Arg Asp Lys Asp Asn  
7

50

55

60

Phe Thr Lys Met Tyr Phe Val Arg Lys Tyr Gln Leu  
 65 70 75

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 <223> Fig. 3: control person

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<210> 14  
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 <223> fig. 3: AJ-135

<400> 14  
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<210> 15  
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<220>  
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<210> 16  
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<210> 17  
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<223> fig. 3: CMT-M and CMT-196

<220>  
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<210> 19  
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